

CHAPTER FOUR

ENGINE TOP END

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This chapter provides complete service and overhaul procedures, including information for disassembly, removal, inspection, service and reassembly of the engine top end components. These include the rocker arms, cylinder head, valves, cylinder block, piston, piston rings and camshaft. Exhaust system service is also covered. Before starting any work, read the service tips in Chapter One.

Table 1 lists general engine specifications and **Table 2** lists engine service specifications. **Tables 1-3** are located at the end of the chapter.

The TRX350 is equipped with an overhead valve pushrod engine. The camshaft is mounted in the crankcase and is driven off the crankshaft by a short cam chain. The camshaft operates followers which move the pushrods against the rocker arms.

CLEANLINESS

Repairs go much faster and easier if the engine is clean before beginning work. This is important

when servicing the engine top end. Clean the engine and surrounding area before working on the engine top end.

EXHAUST SYSTEM

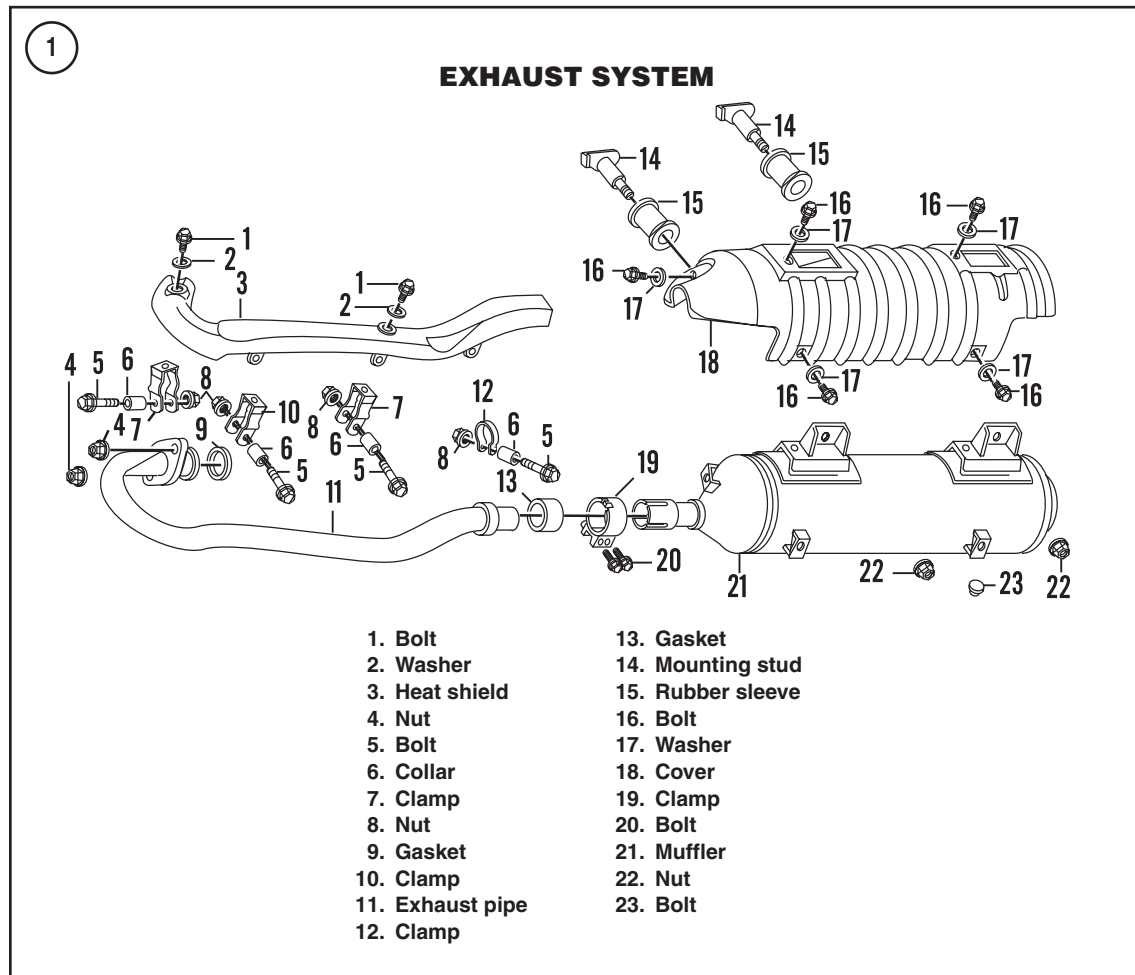
Refer to **Figure 1**.

Removal/Installation

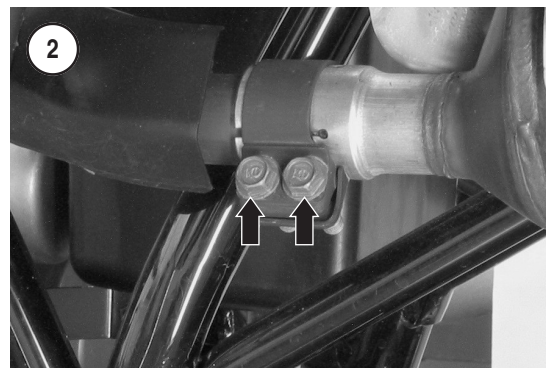
WARNING

Do not remove the exhaust pipe or muffler while they are hot.

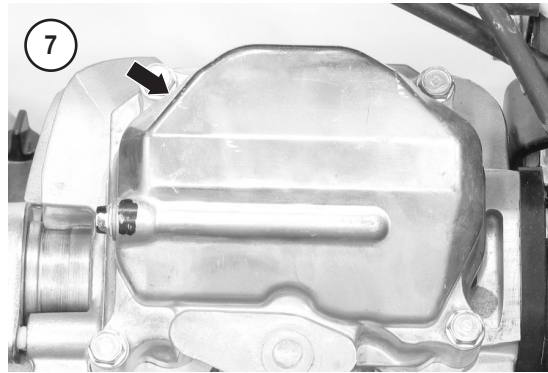
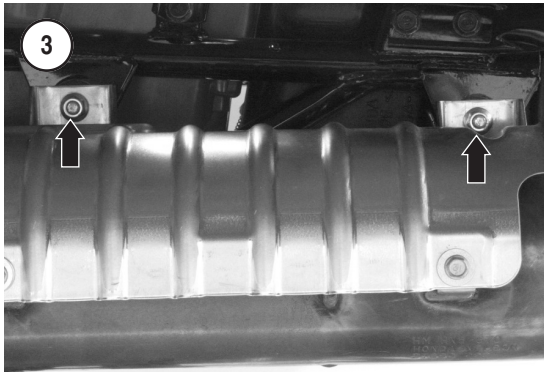
1. Remove the side cover and rear fender (Chapter Fifteen).
2. Loosen the exhaust pipe flange nuts.
3. Remove the muffler as follows:
 - a. Loosen the muffler clamp bolts (**Figure 2**).
 - b. Remove the muffler mounting nuts (**Figure 3**).
 - c. Remove the muffler and gasket (13, **Figure 1**).



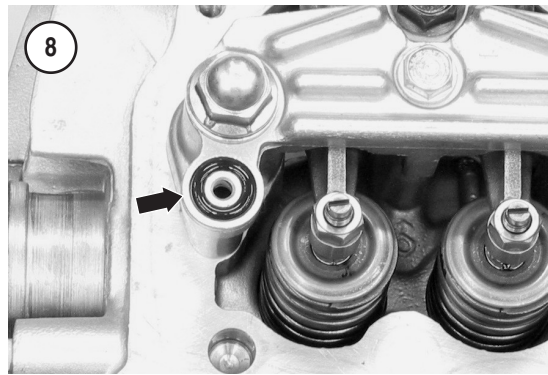
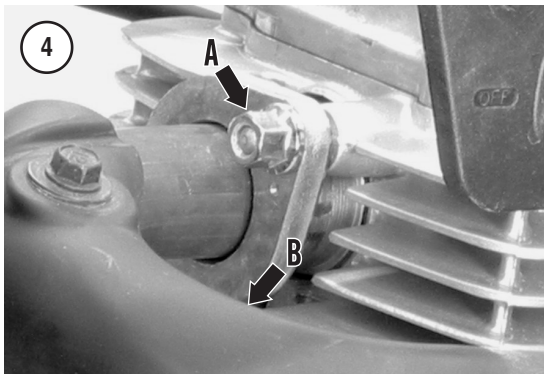
4. Remove the exhaust pipe as follows:
 - a. Remove the exhaust pipe mounting nuts (A, **Figure 4**) from the cylinder head.
 - b. On FM/TM models, remove the rear fender brace retaining bolt (**Figure 5**) and move the brace out of the way.
 - c. Remove the exhaust pipe (B, **Figure 4**) and gasket (**Figure 6**).
5. Refer to **Figure 1** to replace the heat shield. Tighten the heat shield mounting bolts to 22 N•m (16 ft.-lb.).
6. Install the exhaust pipe and muffler by reversing the preceding removal steps, plus the following:
 - a. Install new gaskets (**Figure 6** and 13, **Figure 1**).
 - b. Loosely install all of the exhaust pipe nuts and bolts. Tighten the exhaust pipe mounting



- nuts and the muffler mounting bolts in the following order.
- c. Tighten the exhaust pipe mounting nuts (A, **Figure 4**) securely.
 - d. Tighten the muffler clamp bolts (**Figure 2**) to 23 N•m (17 ft.-lb.).



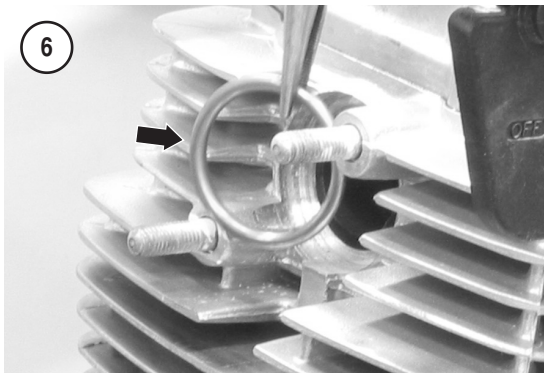
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- e. Tighten the muffler mounting nuts (**Figure 3**) securely.
- f. Start the engine and check for exhaust leaks.

CYLINDER HEAD COVER

Removal/Installation



1. Remove the seat (Chapter Fifteen).
2. Disconnect the negative battery cable from the battery.
3. Remove the fuel tank and heat guard (Chapter Eight).
4. Remove the bolts, cylinder head cover (**Figure 7**) and gasket.
5. Remove the O-ring (**Figure 8**).
6. Clean and dry the cylinder head cover. Flush the cylinder head cover oil passages and holes (**Figure 9**) with compressed air.
7. Install the cylinder head cover by reversing the preceding removal steps, plus the following:
 - a. Replace the cylinder head cover gasket if it is leaking or damaged.

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